

## Risks and dangers:

### 1. Natural threats:

- ✓ earthquake
- ✓ torrent floods and landslides – Medvednica
- ✓ the Sava river floods

### 2. Technical and technological disasters:

- ✓ relating to utility buildings
- ✓ traffic related
- ✓ nuclear and radiological catastrophes – Krško Nuclear Power Plant in Slovenia and Pakš Nuclear Power Plant in Hungary
- ✓ epidemiological and sanitarian dangers
- ✓ war operations and terrorism

## Estimations:

According to estimations relating to the vulnerability of material and cultural goods of the city of Zagreb an earthquake presents the biggest potential danger to the Zagreb inhabitants and its resources. It is estimated that the earthquake in the area of Zagreb could reach a magnitude of 6.3-6.5 on the Richter's scale. The estimations show that about 3,000 inhabitants would be killed, while about 15,000 would be injured.

It is assumed that about 50,000 buildings would be damaged, whereas the oldest parts of the city of Zagreb - where the buildings had not been built according to anti-seismic standards - would be destroyed most seriously.

## Evacuation routes:

### Direction: west-east

- Zagrebačka beltway – from the Jankomir junction to the Ivanja Reka junction;
- Novi Zagreb – the Avenija Dubrovnik from the traffic circle (Rotor) in Novi Zagreb to the Avenija Marina Držića;
- the Ljubjanska Avenija from the Jankomir junction – through the Slavonska avenija – to the Ivanja Reka junction;
- the Vukovarska street – from the Savska street to the Heinzlova street;
- Zagreb zapad – from the Črnomerec tram terminal, through the Ilica street and Avenija Bologne to the exit in Zaprešić;
- Zagreb istok – junction of the Slavonska Avenija and the Avenija Marina Držića, through the Zvonimirova street, Svetice, the Maksimirska street and the Avenija Dubrava to Sesvete;
- The Branimirova street through the Nova Branimirova street from the Heinzlova street to Sesvete.

### Direction: north-south

- The Avenija Gojka Šuška – near the hospital it joins the Maksimirska street and the Avenija Dubrava and then lengthens to the Nova Branimirova street;
- The Bukovačka street:
  - the Petrova street, Prilesje and the Barutanski Jarak join the Bukovačka street;
  - it joins the Maksimirska street and through the Svetice leads to the Nova Branimirova;
- Ribnjak and the Vončinina street:
  - Both join the Vlačka street and the Vlačka street meets with Kvaternikov trg;
  - from the Kvaternikov trg through Šubićeva street to the Zvonimirova and Držićeva streets and then to the west-east evacuation directions.

- from the Kvaternikov trg through the Heinzlova street to all the west-east evacuation directions (the Zvonimirova, Nova Zvonimirova, Vukovarska streets and the Slavonska Avenija).
- Britanski trg and Vinogradska street:
  - Both join the Ilica street and then through Ilica, Trg Francuske Republike and Jagićeva street lead the Savska street, and through the Savska street they lead to the Vukovarska street and the Slavonska Avenija
- The Ilica street and Avenija Bologne:
  - From the tram terminal Črnomerec – with the corridor meet all the streets located north of the Kustošijanska street, the Vrapčanska street, Ponikvi, the Zelena Magistrala, and the Podsudska Aleja
- The Ilica street and the Selska street
  - Both end at the east-west corridors from the Slavonska street to the Zagrebačka beltway

### Critical spots

- Avenija Marina Držića – the street loop
- Savska street – the underpass
- The Domovinski bridge
- The railway bridge – Jakuševac

### Evacuation areas

#### 1. The quarter Gornji Grad – Medveščak

Emergency locations:

1. Trg sv. Marka
2. Trg Sv. Katarine
3. Cmrok
4. Ilirski trg
5. Tuškanac

Evacuation assembly areas:

1. Jarun
2. or Hipodrom

#### 2. The quarter Novi Zagreb – eastern part

Emergency locations:

1. the playground at the I. Gimnazij
2. Park Travno
3. the school Dugave
4. the primary school – S. Gradića 4

Evacuation assembly areas:

1. the car's fair - Jakuševac
2. Bundek

#### 3. The quarter Novi Zagreb – western part

Emergency locations:

1. Podbrežje
2. Velesajam
3. the parking lot near Billa (under the traffic circle)

Evacuation assembly areas:

1. Hipodrom
2. Park Mladenaca

#### **4. The quarter Trešnjevka – south**

Emergency locations:

1. the Faculty of Kinesiology
2. the Sports and Recreation Centre Mladost
3. the crossroads of the Petrovaradinska street and the Zagrebačka Avenija

Evacuation assembly areas:

1. the Sports and Recreation Centre Jarun
2. the Petrovaradinska street – water management (Vodoprivreda)
3. the tram terminal Prečko

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